

Reed Auto Switch Band Mounting Type D-B53/D-B54/D-B64



Refer to SMC website for the details of the products conforming to the international standards.

Grommet



Caution

Precautions

Do not drop or bump the auto switch while handling it as it may result in the auto switch breaking.

Auto Switch Specifications

PLC: Programmable Logic Controller

D-B5 (With indicator light)			
Auto switch model	D-B53		D-B54
Applicable load	PLC		Relay, PLC
Load voltage	24 VDC ⁽⁴⁾	24 VDC ⁽⁴⁾	100 VAC 200 VAC
Load current range ⁽³⁾	5 to 50 mA	5 to 50 mA	5 to 25 mA 5 to 12.5 mA
Internal circuit*	③		①
Contact protection circuit	None		Built-in
Internal voltage drop	2.4 V or less	2.4 V or less (Up to 20 mA)/3.5 V or less (Up to 50 mA)	
Indicator light	Red LED illuminates when turned ON.		
Standard	CE marking		
D-B6 (Without indicator light)			
Auto switch model	D-B64		
Applicable load	Relay, PLC		
Load voltage	24 V ^{AC} or less	100 VAC	200 VAC
Max. load current	Max. 50 mA	Max. 25 mA	Max. 12.5 mA
Internal circuit*	②		
Contact protection circuit	Built-in		
Internal resistance	25 Ω or less		
Standard	CE marking		

Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-B53/B54/B64	
Sheath	Outside diameter (mm)	ø4	
	Number of cores	2 cores (Brown/Blue)	
Insulator	Outside diameter (mm)	ø1.22	
	Effective area (mm ²)	0.3	
Conductor	Strand diameter (mm)	ø0.08	
	Lead wire minimum bending radius (mm) (Reference values)	24	

* Refer to the applicable internal circuit diagram (numbers ① to ⑦) on page 1587.

Note 1) Refer to page 1584 for reed auto switch common specifications.

Note 2) Refer to page 1584 for lead wire lengths.

Note 3) Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

Note 4) The auto switches can operate at 12 VDC, but consider the internal voltage drop of the auto switch described in Reed Auto Switch Precautions on page 12.

Weight

(g)

Auto switch model		D-B53	D-B54	D-B64
Lead wire length	0.5 m (Nil)	22	22	22
	3 m (L)	78	78	78
	5 m (Z)	126	126	—

Dimensions

(mm)

